MARINE SCIENCES (B.S.)

Bachelor of Science (B.S.) in Marine Sciences

The Stokes School of Marine & Environmental Sciences offers a B.S. in Marine Sciences to address society's need for specialized understanding of the marine environment. This program is designed to prepare students for tackling challenges and opportunities presented by the "Blue Economy". The "Blue Economy" encompasses a broad range of job opportunities related to the marine environment allowing graduates to pursue careers in government, academic, commercial and industrial settings. The degree program takes advantage of the location of the University South Alabama as well as its partnership with the Dauphin Island Sea Lab, DISL, to provide a unique educational experience as well as experiential learning opportunities. These institutional locations give students direct access to the natural marine laboratories of the Mobile Tensaw Delta, Mobile Bay, and the Gulf of Mexico where students will be immersed in all things marine!

A cornerstone of this program is the Semester by the Sea at DISL where students in this program will spend their spring semester of junior or senior year taking coursework at DISL with the option of living in residence at DISL. Students must complete the following courses prior to attending the spring semester by the sea: BLY 121/L, BLY 122/L, CH 131/L, CH 132/L, PH 114/L or PH 201/L, MAS 134/L, MAS 331/L, and MAS 332/I

Degree Requirements

MAS 367

MAS 430

MAS 451

MAS 471

MAS 477

MAS 478

MAS 488

MAS 490

Code	Title	Hours
	tion Requirements. Please see the STEM requirements to be taken for this major.	ents
https://bulletir #generaleduca	n.southalabama.edu/programs-az/arts-sciences/ ationtext	53-57
Required Mari	ne Sciences Courses	37
MAS 134 & 134L	Ocean Science and Ocean Science Lab	4
MAS 331 & 331L	Marine Science I and Marine Sciences I Lab	4
MAS 332 & 332L	Marine Science II-W and Marine Sciences II Lab	4
MAS 336	Marine Operations/Research-W	3
MAS 337 & 337L	Marine Geology and Marine Geology Lab	4
MAS 431 & 431L	Field and Laboratory Measuremn and Field and Laboratory Measure	4
MAS 475	Marine Ecology	4
Choose 3 of th	e following DISL Summer courses:	10
MAS 371	Shark and Ray Biology	

Marine Biology

Marine Botany

Special Topics

Marine Vertebrate Zoology

Marine Invertebrate Zoology

Coral Reef Biology & Ecology

Field Marine Science II

Marine Mammal Hlth/Strd Resp

Other Course Requirements

See list below

Minor Requirements

A minor is required for this degree program.

18-24

The Composite Science minor consists of three laboratory science sequences. Marine Science students may satisfy a Composite Science minor by completing the major additional course requirements (i.e. BLY 121/L, BLY 122/L, CH 131/L, CH 132/L, and PH 114/L) plus either PH 115 & PH 115L or PH 202 & PH 202L. Or a student could take GY 111 & GY 111L and GY112 & GY 112L to complete the Composite Science minor or by taking GEO 101 & GEO 101L and GEO 102 & GEO 102L.

A MINIMUM OF 120 HOURS IS REQUIRED FOR A DEGREE

120

All undergraduates must complete two designated writing credit (W) courses.

Note: PHL 231 is suggested as one of the AREA II. General Education Requirements.

Other Course Requirements:

Additional courses required for the major includes 16 credits hours of general education courses in the following list.

Code	Title	Hours
MA 125	Calculus I	4
BLY 121 & 121L	General Biology I and General Biology I Lab	4
BLY 122 & 122L	General Biology II and General Biology II Laboratory	4
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4
Choose one from	the following:	4-5
PH 114 & 114L	Physics with Algebra-Trig I and Alg-Trig Based Physics I Lab	
PH 201 & 201L	Calculus-Based Physics I and Calculus-Based Physics I Lab	

Major Milestones

Course	Title	Hours
First Year		
Fall		
CAS 100	First Yr Exp -	2
EH 101	English Composition I	3
CH 131 & 131L	General Chemistry I and General Chemistry I Lab	4
BLY 121 & 121L	General Biology I and General Biology I Lab	4
MA 125	Calculus I	4
	Hours	17
Spring		
MAS 134 & 134L	Ocean Science and Ocean Science Lab	4
EH 102	English Composition II	3
CH 132 & 132L	General Chemistry II and General Chemistry II Lab	4

Marine Sciences (B.S.)

2

BLY 122 & 122L	Canaral Dialami II	
& 1221	General Biology II	4
w . LLL	and General Biology II Laboratory	
	Hours	15
Second Year		
Fall		
MAS 331	Marine Science I	4
& 331L	and Marine Sciences I Lab	_
PH 114 & 114L	Physics with Algebra-Trig I	5
	and Alg-Trig Based Physics I Lab	3
	ehavioral Sciences (Gen Ed) Arts Elective (Gen Ed)	3
Humanities & Fine		
	Hours	15
Spring	- 111 - 111	
CA 110	Public Speaking	3
PHL 231	Social Ethics (Gen Ed - HUMANITIES ELECT)	3
MAS 332	Marine Science II-W	3
MAS 332L	Marine Sciences II Lab	1
Humanities & Fine	Arts Elective (Gen Ed)	3
	Hours	13
Third Year		
Fall		
History, Social & Be	ehavioral Sciences Elective (Gen Ed)	3
Foreign Language I	I (Gen Ed)	3
Humanities & Fine	Arts Elective (Gen Ed)	3
Minor Course		3
	Hours	12
Spring		
MAS 336	Marine Operations/Research-W	3
MAS 475	Marine Ecology	4
MAS 431	Field and Laboratory Measuremn	4
& 431L	and Field and Laboratory Measure	
MAS 337	Marine Geology	4
& 337L	and Marine Geology Lab	
	Hours	15
Summer		
Students may take	a DISL summer course during Second year summer to lighten	
Students may take load during Third Yo	ear Summer.	
Students may take load during Third Yo MAS 371	ear Summer. Shark and Ray Biology	
Students may take load during Third Yo MAS 371 MAS 451	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology	
Students may take load during Third Yo MAS 371	ear Summer. Shark and Ray Biology	4
Students may take load during Third Yo MAS 371 MAS 451	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology	2
Students may take load during Third Yo MAS 371 MAS 451	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology	4
Students may take load during Third Yo MAS 371 MAS 451 MAS 471	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology	4
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology	10
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours	10
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours	10
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours	10
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours	10
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours I Behavioral Sciences Elective (Gen Ed)	10
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course Minor Course	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours I Behavioral Sciences Elective (Gen Ed) Hours	10 3 3 3 3 12
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course Minor Course Spring Foreign Language I	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours I Behavioral Sciences Elective (Gen Ed) Hours	10 10 3 3 3 3 3
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course Minor Course Spring Foreign Language I	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours I Behavioral Sciences Elective (Gen Ed) Hours	3 3 3 3 3 12
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course Minor Course Spring Foreign Language I History, Social, and	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours I Behavioral Sciences Elective (Gen Ed) Hours	2 10 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students may take load during Third Yo MAS 371 MAS 451 MAS 471 Fourth Year Fall History, Social, and Minor Course Minor Course Minor Course Foreign Language I History, Social, and Minor Course	ear Summer. Shark and Ray Biology Marine Vertebrate Zoology Marine Invertebrate Zoology Hours I Behavioral Sciences Elective (Gen Ed) Hours	2 4 4 4 10 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Notes

Students with ACT Math scores 22-23 should take CH 100 and MA 112 in the first semester, and they will graduate with 128 hours; MA 125 also satisfies the math requirement. Students with ACT Math scores 21 and below should begin math courses in the summer before Fall - Year 1.

- * Students who earn an English ACT score of 27 or above, SAT score of 610 or above on the verbal portion, or a new SAT Reading Test can opt out of EH 101.
- ** Must have one history elective and one literature elective. In addition, students must choose a second history or literature to complete a two-part sequence.
- *** There may be additional prerequisites for upper level major electives. Refer to the bulletin for more information.

All Arts and Sciences majors require a minor between 18 and 24 hours. Courses used in a minor can also be used for general education requirements or major requirements (up to two courses).

Two designated writing (W) courses are required with at least one course chosen from offerings in the student's major or minor. Courses carrying this required credit are identified in the University Bulletin by a (W) after the course title.

The Sample 4-year plan is designed as a guide for students preparing for their course selections. This information provides only a suggested schedule. Actual course selections should be made in consultation with an advisor.